

AMENDMENTS TO THE CLAIMS

Please amend Claims 1, 7, 15-16, 18, and 22-24 and cancel Claims 11-14 as follows, without prejudice or disclaimer to continued examination on the merits:

1. (Currently Amended): A method of monitoring a wireless network, the method comprising the steps of:

- (a) receiving a data unit from a wireless node;
- (b) if a bandwidth constraint is satisfied, buffering the received data unit; ~~and~~
- (c) transmitting the received or buffered data unit to a monitoring processor;
- (d) repeating steps (a) through (c) for a plurality of wireless nodes;
- (e) deterministically selecting the wireless node from the plurality of wireless nodes for a given repetition.

2. (Original): The method of claim 1, and further comprising the steps of receiving the bandwidth constraint.

3. (Original): The method of claim 2, wherein the bandwidth constraint is received from a local data store, a wired network node, a wireless network node, an access point or a sensor.

4. (Original): The method of claim 2, and further comprising the step of requesting the bandwidth constraint.

5. (Original): The method of claim 1, and further comprising the step of determining the bandwidth constraint.

6. (Original): The method of claim 5, wherein the step of determining the bandwidth constraint is based at least in part upon local data, data received from a wired network node, data received from a wireless network node, data received from an access point, data received from a sensor or combinations thereof.

7. (Currently Amended): The method of claim 1, ~~and~~ further comprising a step ~~the step~~ of downsampling when the bandwidth constraint is satisfied.

8. (Original): The method of claim 7, wherein the step of downsampling occurs when a local storage constraint is satisfied.

9. (Original): The method of claim 8, wherein the step of downsampling only occurs when the local storage constraint is satisfied.

10. (Original): The method of claim 7, wherein the step of downsampling comprises one or more steps selected from the group consisting of:

- (i) discarding the received data unit if it is redundant with a previously buffered data unit;

- (ii) aggregating the received data unit with a previously buffered data unit;

- (iii) discarding the received data unit if it comprises network control data;

- (iv) discarding the received data unit if it is associated with a device that has already been observed more frequently than other devices; and

- (v) discarding the received data unit if the wireless node is determined to be a low threat node.

11. (Canceled).

12. (Canceled).

13. (Canceled).

14. (Canceled).

15. (Currently Amended): The method of claim 1 ~~claim 14~~, wherein the deterministic selection is a sequential traversal of the plurality, a selection based upon amount of

buffered data for each wireless node in the plurality, a selection based upon a threat level for each wireless node in the plurality or combinations thereof.

16. (Currently Amended): The method of claim 1 ~~claim 11~~, wherein the transmitting step occurs at a rate determined based upon the bandwidth constraint and current bandwidth usage ~~useage~~.

17. (Original): The method of claim 1, and further comprising the step of repeating steps (a) through (c) for a plurality of received data units from the wireless node.

18. (Currently Amended): The method of claim 17, wherein the transmitting step occurs at a rate determined based upon the bandwidth constraint and current bandwidth usage ~~useage~~.

19. (Original): The method of claim 1, wherein the transmitting step occurs at a time based upon whether the bandwidth constraint is satisfied.

20. (Original): The method of claim 19, wherein the transmitting step comprises immediately transmitting the received data unit if the bandwidth constraint is not satisfied.

21. (Original): The method of claim 19, wherein the transmitting step further comprises transmitting the buffered data unit at a point in time when the bandwidth constraint is not satisfied.

22. (Currently Amended): One or more computer readable ~~readible~~ media storing instruction that upon execution by a system processor cause the system processor to monitor a wireless network by performing the methods of any of claims 1 through 21.

23. (Currently Amended): A system of monitoring a wireless network, the system comprising:

(a) a system data store (SDS) comprising capable of storing wireless data transmitted by a plurality of wireless node[s] and configuration information at least comprising a bandwidth constraints;

(b) a wireless receiver capable of receiving one or more data units from the plurality of wireless nodes ~~a wireless node~~;

(c) a communication interface allowing communication with a monitoring processor; and

(d) a system processor in communication with the SDS, the wireless receiver and the communication interface, wherein the system processor comprises one or more processing elements configured ~~programmed or adapted~~ to:

(i) receive a data unit from the wireless receiver in response to receipt of the data unit by the wireless receiver from a wireless node of the plurality of wireless nodes;

(ii) buffer the received data unit in the SDS if a bandwidth constraint is satisfied;

(iii) immediately transmit the received data unit to the monitoring processor ~~process~~ via the communication interface if the bandwidth constraint is not satisfied;

(iv) repeat steps (i) through (iii) for a plurality of received data units, wherein the wireless node of the plurality of wireless nodes is deterministically selected for a given repetition;

(v) discard the received data unit if the bandwidth constraint is satisfied, if a local storage constraint has been satisfied and if the received data unit is redundant with a previously buffered data unit, comprises network control data, is associated with a device that has already been observed more frequently than other devices or originates from a low threat wireless node;

(vi) aggregate the received data unit with a previously buffered data unit if the bandwidth constraint is satisfied and if the received data unit is compatible with the previously buffered data unit; and

(vii) transmit a selected buffered data unit to the to the monitoring processor ~~process~~ via the communication interface at a point in time after receipt based upon the bandwidth constraint and bandwidth usage ~~usage~~.

24. (Currently Amended): A system of monitoring a wireless network, the system comprising:

(a) receiving means for receiving a data unit from a wireless node;

(b) buffer means for deterministically accepting for buffering a received data unit from the receiving means if a bandwidth constraint is satisfied, aggregating the deterministically accepted data unit with a previously buffered data unit if the deterministically accepted data unit is compatible with the previously buffered data unit, discarding the deterministically accepted data unit if a storage constraint is satisfied and if the deterministically accepted data unit is redundant with a previously buffered data unit, comprises network control data, is associated with a device that has already been observed more frequently than other devices or originates from a low threat wireless node; and

(c) output means for immediately transmitting a received data unit to a monitoring processor if the bandwidth constraint is not satisfied and for transmitting a buffered data unit to the monitoring processor at a point in time after receipt based upon the bandwidth constraint and bandwidth usage ~~usage~~.